

12/6/79

FACT SHEET

TX 00 4588

AMERICAN PETROFINA COMPANY OF TEXAS - Port Arthur, Texas

TXD 065099160

110,000 BPD Cracking Category Refinery.

NPDES PERMIT REVIEW

TX 0004201

Sep. 17, '78

Exp. Mar. 31, '80

Effluent Limitations

Petrofina had been inspected three times within an 18-month period of the NEIC inspection. Each time the same deficiencies were documented: failed to authenticate performance with proper records and failure to upgrade the flow-measuring device on outfall 002. The permit does not limit the quantity of pollutants discharged from outfalls 001, 002 and 004; it limits only the concentration of TOC and O&G. This kind of a permit allows one to achieve compliance by dilution.

Monitoring Requirements

Outfall 002 still does not have a proper flow measuring device. The permit does not require a flow measuring device on outfalls 001 and 004. The overflow weirs on the final clarifier were badly out of level causing short circuiting.

The laboratory does not follow the prescribed procedures as required in the approved test methods. The following DMR results could be low: BOD, TSS, phenolics, sulfides and hexavalent chromium.

SUPERFUND FILE

JUN 12 1992

REORGANIZED

The laboratory needs to improve the quality control procedures to improve the credibility of DMR data.

TOXIC/HAZARDOUS POLLUTANTS ASSESSMENT

The "uncontaminated discharge" through outfall 002 contained the following 24 toxic pollutants:

Pollutant	ug/l	Pollutant	ug/l	Pollutant	ug/l
Carbon tetrachloride	61	Toluene	8	C ₃ sub benzene	
1,1,1-trichloroethane	460	1,4-dichlorobenzene	15	C ₄ sub benzene	
1,1-dichloroethene	91	Naphthalene	7	C ₅ sub benzene	200
Chloroform	260	Phenanthrene	3	C ₁ sub naphthalene	
1,1 dichloroethylene	26	Flourene	2	C ₂ sub naphthalene	
Ethylbenzene	7	Phenolics	11	C ₃ sub naphthalene	
Methylene chloride	14	Cyanide	16	Chromium	45
Dichlorobromomethane	18	Arsenic	3	Zinc	70

The treated process water (Outfall 003) contained the following toxics.

Pollutant	ug/l	Pollutant	ug/l
Methylene chloride	1400	Toluene	4
Phenol	0.25	Arsenic	3
Total chromium	65		

Outfalls 001 and 004 were not sampled because they were not flowing.

Duplicate air samples taken adjacent to the uncovered API separator showed the presence of benzene, hexane, ethyl benzene, and a particularly high concentration of toluene.

An air sample taken at the Cat Reformer showed the presence of benzene, hexane, ethyl benzene, and a particularly high concentration of toluene.